TEL: 886-7-6962211~3 http://www.sanho.com.tw FAX: 886-7-6976993 (Sales) E-mail: sanho@sanho.com.tw FAX: 886-7-6961782 (Export) E-mail: sanho@so-net.net.tw

TOHMIDE 225-R

TOHMIDE 225-R is a medium viscosity, reactive polyaminoamide resin based on dimerized fatty acid and polyamines.

It's major applications include general adhesives, sealants, putties, concrete repair compounds and surface coatings.

1. SALES SPECIFICATION

Appearance : Brown-colored viscous liquid.

Viscosity (mPa·s 40° C) : 3,500 ~ 10,000 mPa·s

Colour (Gardner) : 10 Max. Amine Value (JIS) : 335 û 15

A.H.E.W. : 115 Specific Gravity $(25 / 25^{\circ}\mathbb{C})$: 0.97

2. RECOMMENTED MIXING RATIO

- (1).20 ~ 50 parts to 100 parts of Bisphenol-A type epoxy resin whose epoxy equivalent weight is about 490.
- (2)50~100 parts to 100 parts of Bisphenol-A type epoxy resin whose epoxy equivalent weight is about 190.

3. CURING CHARACTERISTICS

Epoxy resin : Employed Bisphenol-A type epoxy resin whose epoxy equivalent

weight is about 190.

Total mass : 100 gram

Room temp. $: 23^{\circ}\mathbb{C}$

Epoxy / TOHMIDE 225-R		70 / 30	60 / 40	50 / 50	
Peak Exothermic Time	(min.)	155	180	205	
Peak Exothermic Temperature	$(^{\circ}\!\mathbb{C})$	32	35	42	
Gell Time	(min.)	260	225	185	



SANHO CHEMICAL CO., LTD. NO. 1 CHUNG SHAN S. RD., LU-CHU, KAOSHIUNG, TAIWAN.

NO. 1 CHUNG SHAN S. RD., LU-CHU, KAOSHIUNG, TAIWAN. TEL: 886-7-6962211~3 http://www.sanho.com.tw FAX: 886-7-6976993 (Sales) E-mail: sanho@sanho.com.tw

FAX: 886-7-6961782 (Export) E-mail: sanho@so-net.net.tw

4. MECHANICAL/PHYSICAL PROPERTIES

Employed Bisphenol-A type epoxy resin whose epoxy equivalent weight is about 190. Curing time=7 days at 23° C

Epoxy resin / TOHMIDE 225-R		70 / 30	60 / 40	50 / 50
Tensile Strength	(kgf/mm ²)	2.4	3.3	5.6
Flexural Strength	(kgf/mm^2)	2.8	5.6	6.9
Flexural Modulus	(kgf/mm^2)	7.3×10^{2}	6.7×10^2	9.9×10^{2}
Compressive Strength	(kgf/mm^2)	4.0	4.4	6.0
Izod Impact Strength	(kgf-cm/cm)	1.1	1.5	2.3
Rockwell Hardness	(M Scale)	5	3.9	4.8
Heat Distrotion Temperature	$(^{\circ}\mathbb{C})$	31.5	35	45

5. LAP SHEAR STRENGH

The resin mix of TOHMIDE 225-R and the same epoxy resin as employed above was applied to hold mild steel plates at $22\sim23^{\circ}$ C, whose surface were treated by sand-blast. LAP SHEAR STRENGTH was measured as follow after leaving the bonded steel plates at $22\sim23^{\circ}$ C for 7 days.

Epoxy / TOHMIDE 225-R	70 / 30	60 / 40	50 / 50	
Lap Shear Strength (kgf/cm ²)	206	176	176	

6. CHEMICAL RESISTANCE OF THE CURED PRODUCTS

Percentage increase in weight of the cured products of TOHMIDE 225-R and the same epoxy resin as employed above were measured as follow after curing them at an ambient temperature, and immersing into following chemical substances.

Epoxy / TOHMIDE 225-R	70 / 30		60 / 40		50 / 50				
Immersing time (days)	1	7	30	1	7	30	1	7	30
Tap Water	0.2	0.7	1.5	0.2	0.9	1.9	0.2	0.8	1.7
5% solution of Salt	0.2	0.7	1.4	0.2	0.8	1.7	0.2	0.8	1.6
10% solution of Caustin soda	0.2	0.7	1.3	0.2	0.8	1.5	0.2	0.6	1.3
10% solution of Ammonia	0.2	0.7	1.4	0.3	0.8	1.9	0.2	0.7	1.6
5% solution of Surfruic Acid	0.4	1.1	1.9	1.0	2.5	4.6	0.4	9.9	19.4
5% solution of Hydrochioric Acid	0.2	0.7	1.4	0.6	1.7	3.2	1.8	5.2	10.9
Kerocene	0.0	0.2	0.3	0.1	0.3	0.4	0.0	0.2	0.5
Isopropylalcohol	0.8	1.6	2.1	1.4	3.0	4.6	2.0	5.0	9.9
Metyliso butylietone	11.6	7.8		2.4	18.3	25.5	7.8	7.6	15.1